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In the Claims:

Please cancel claim 26, and please amend claims 1, 2, 5, 8, 13, 18, 21, 27, 32, 35, 40, 43, 48 and 51 as follows:

1. (Currently Amended) An interconnecting unit for electrically coupling a microelectronic die having an integrated circuit to voltage sources and signal sources, the interconnecting unit comprising:

a substrate having a cap-zone defined by an area <u>for that is to be</u> encapsulated <u>encapsulation</u> by a protective casing, a plurality of interconnects having a plurality of first elements in the cap-zone, a plurality of second elements arranged in an array outside of the cap-zone, and a plurality of transmission lines coupling the first elements to the second elements; and

a gasket <u>removably</u> attached to the substrate outside of the cap-zone, wherein at least a portion of the gasket is adjacent to at least a portion of the cap-zone.

2. (Currently Amended) The interconnecting unit of claim 1 wherein:

the substrate has a die-side for attachment to which the die is to be attached and the cap-zone is on the die-side surrounding the contact array; and the gasket is a thin film disposed on the die-side of the substrate such that the thin film surrounds the cap-zone.

- 3. (Original) The interconnecting unit of claim 2 wherein the thin film is a pliable tape applied to the substrate.
- 4. (Original) The interconnecting unit of claim 2 wherein the thin film is a polymeric film deposited on the substrate.
- 5. (Currently Amended) The interconnecting unit of claim 1 wherein: the substrate has a slot, a die-side <u>for attachment</u> to which the die-is to be attached, and a wire-side opposite the die-side;

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the first elements of the interconnects comprise a plurality of contact elements being arranged in a contact array adjacent to the slot on the wire-side of the substrate such that the cap-zone surrounds the contact array and the slot on the wire-side of the substrate, the second elements comprise ball-pads arranged outside of the cap-zone on the wire-side of the substrate, and the transmission lines comprise electrically conductive lines; and

the gasket is a thin film disposed on the wire-side of the substrate such that the thin film surrounds the cap-zone.

- 6. (Original) The interconnecting unit of claim 5 wherein the thin film is a pliable tape applied to the substrate.
- 7. (Original) The interconnecting unit of claim 5 wherein the thin film is a polymeric film deposited on the substrate.
 - 8. (Currently Amended) The interconnecting unit of claim 1 wherein: the substrate has a slot, a die-side for attachment to which the die-is to be

attached, and a wire-side opposite the die-side;

the first elements of the interconnects comprise a plurality of contact elements being arranged in a contact array adjacent to the slot on the wire-side of the substrate such that the cap-zone includes a first cap region surrounding the contact array and the slot on the wire-side of the substrate and a second cap region surrounding an area on the die-side that is covered by the die when the die is attached to the substrate, the second elements comprise ball-pads arranged outside of the first cap region on the wire-side of the substrate, and the transmission lines comprise electrically conductive lines; and

the gasket comprises a first thin film disposed on the die-side of the substrate surrounding the first cap region and a second thin film disposed on the wire-side of the substrate surrounding the second cap region.

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9. (Original) The interconnecting unit of claim 8 wherein the first and second thin films are pliable tape sections.

- 10. (Original) The interconnecting unit of claim 8 wherein the first and second thin films are polymeric films.
- 11. (Original) The interconnecting unit of claim 1 wherein the gasket is a piece of tape adhered to the substrate, the tape having an opening with edges bordering the cap-zone.
- 12. (Original) The interconnecting unit of claim 1 wherein the gasket is a compressible film material adhered to the substrate, the film having an opening with edges bordering the cap-zone.
- 13. (Currently Amended) An interconnecting unit for electrically coupling a microelectronic die having an integrated circuit to voltage sources and signal sources, the interconnecting unit comprising:

a substrate having a cap-zone defined by an area <u>for that is to be</u> <u>encapsulated encapsulation</u> by a protective casing, a plurality of contact elements arranged in the cap-zone, a plurality of ball-pads arranged in a ball-pad array outside of the cap-zone, and a plurality of conductive lines coupling the contact elements to the ball-pads; and

a <u>removable</u> barrier projecting away from a surface of the substrate outside of the cap-zone, wherein at least a portion of the barrier is adjacent to the cap-zone.

14. (Original) The interconnecting unit of claim 13 wherein the barrier comprises a film having an opening with edges bordering the cap-zone.

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15. (Original) The interconnecting unit of claim 14 wherein the film is a thin tape applied to the substrate.

- 16. (Original) The interconnecting unit of claim 14 wherein the film is polymeric coating applied to the substrate.
- 17. (Original) The interconnecting unit of claim 13 wherein the barrier is a ridge formed in the substrate that surrounds the cap-zone.
 - 18. (Currently Amended) The interconnecting unit of claim 13 wherein:

the substrate has a slot, a die-side <u>for attachment</u> to <u>which</u> the die-is to be attached, and a wire-side opposite the die-side, wherein the contact elements are arranged in a contact array adjacent to an edge of the slot on the wire-side of the substrate, wherein the ball-pad array is spaced apart from the contact array on the wire-side of the substrate, and a boundary of the cap-zone is between the contact array and the ball-pad array on the wire-side of the substrate; and

the barrier comprises a film having an opening with edges bordering the boundary of the cap-zone.

- 19. (Original) The interconnecting unit of claim 18 wherein the film is a thin tape applied to the substrate.
- 20. (Original) The interconnecting unit of claim 18 wherein the film is polymeric coating applied to the substrate.
- 21. (Currently Amended) $A\underline{n}$ interconnecting unit for electrically coupling a microelectronic die having an integrated circuit to voltage sources and signal sources, the interconnecting unit comprising:

a substrate having a cap-zone defined by an area <u>for that is to be</u> encapsulated encapsulation by a protective casing, an opening in the cap-zone, a

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plurality of contact elements arranged in the cap-zone along an edge of the opening, a plurality of ball-pads arranged in a ball-pad array outside of the cap-zone, and a plurality of conductive lines coupling the contact elements to the ball-pads; and

a barrier on the substrate outside of the cap-zone, wherein at least a portion of the barrier is adjacent to at least a portion of the cap-zone, and wherein the barrier covers at least one of the plurality of ball-pads.

- 22. (Original) The interconnecting unit of claim 21 wherein the barrier comprises a film having an opening with edges bordering the cap-zone.
- 23. (Original) The interconnecting unit of claim 22 wherein the film is a thin tape applied to the substrate.
- 24. (Original) The interconnecting unit of claim 22 wherein the film is polymeric coating applied to the substrate.
- 25. (Original) The interconnecting unit of claim 21 wherein the barrier is a ridge formed in the substrate that surrounds the cap-zone.
 - 26. (Cancelled)
- 27. (Currently Amended) A packaged microelectronic device assembly, comprising:

a microelectronic die having an integrated circuit and a plurality of bondpads on an exterior surface, at least a set of the bond-pads being operatively coupled to the integrated circuit;

a substrate having a cap-zone defined by an area <u>for that is to be</u> encapsulated <u>encapsulation</u> by a protective casing, a plurality of contact elements arranged in the cap-zone, a plurality of ball-pads arranged in a ball-pad array outside of the cap-zone, and a plurality of conductive lines coupling the contact elements to the

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ball-pads, the microelectronic die being attached to the substrate, and the contact elements being electrically coupled to corresponding bond-pads;

a protective casing covering the cap-zone; and

a gasket attached to the substrate outside of the cap-zone, wherein at least a portion of the gasket is adjacent to at least a portion of the protective casing, and wherein the gasket covers at least one of the plurality of ball-pads.

- 28. (Original) The packaged microelectronic device of claim 27 wherein the gasket comprises a film having an opening with edges bordering the cap-zone.
- 29. (Original) The packaged microelectronic device of claim 28 wherein the film is a thin tape applied to the substrate.
- 30. (Original) The packaged microelectronic device of claim 28 wherein the film is polymeric coating applied to the substrate.
- 31. (Original) The packaged microelectronic device of claim 27 wherein the barrier is a ridge formed in the substrate that surrounds the cap-zone.
- 32. (Currently Amended) The packaged microelectronic device of claim 27 wherein:

the substrate has a slot, a die-side to which the die is to be attached, and a wire-side opposite the die-side, wherein the contact elements are arranged in a contact array adjacent to an edge of the slot on the wire-side of the substrate, wherein the ball-pad array is spaced apart from the contact array on the wire-side of the substrate, and a boundary of the cap-zone is between the contact array and the ball-pad array on the wire-side of the substrate; and

the gasket comprises a film having an opening with edges bordering the boundary of the cap-zone.

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33. (Original) The packaged microelectronic device of claim 32 wherein the film is a thin tape applied to the substrate.

- 34. (Original) The packaged microelectronic device of claim 32 wherein the film is polymeric coating applied to the substrate.
- 35. (Currently Amended) A packaged microelectronic device assembly, comprising:

a microelectronic die having an integrated circuit and a plurality of bondpads on an exterior surface, at least a set of the bond-pads being operatively coupled to the integrated circuit;

a substrate having a cap-zone defined by an area <u>for that is to be</u> encapsulated <u>encapsulation</u> by a protective casing, a plurality of contact elements arranged in the cap-zone, a plurality of ball-pads arranged in a ball-pad array outside of the cap-zone, and a plurality of conductive lines coupling the contact elements to the ball-pads, the microelectronic die being attached to the substrate, and the contact elements being electrically coupled to corresponding bond-pads;

a protective casing covering the cap-zone; and

a barrier projecting away from a surface of the substrate outside of the cap-zone, wherein at least a portion of the barrier is adjacent to at least a portion of the protective casing, and wherein the barrier covers at least one of the plurality of ball-pads.

- 36. (Original) The packaged microelectronic device of claim 35 wherein the barrier comprises a film having an opening with edges bordering the cap-zone.
- 37. (Original) The packaged microelectronic device of claim 36 wherein the film is a thin tape applied to the substrate.

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38. (Original) The packaged microelectronic device of claim 36 wherein the film is polymeric coating applied to the substrate.

- 39. (Original) The packaged microelectronic device of claim 35 wherein the barrier is a ridge formed in the substrate that surrounds the cap-zone.
- 40. (Currently Amended) The packaged microelectronic device of claim 35 wherein:

the substrate has a slot, a die-side to which the die is to be-attached, and a wire-side opposite the die-side, wherein the contact elements are arranged in a contact array adjacent to an edge of the slot on the wire-side of the substrate, wherein the ball-pad array is spaced apart from the contact array on the wire-side of the substrate, and a boundary of the cap-zone is between the contact array and the ball-pad array on the wire-side of the substrate; and

the barrier comprises a film having an opening with edges bordering the boundary of the cap-zone.

- 41. (Original) The packaged microelectronic device of claim 40 wherein the film is a thin tape applied to the substrate.
- 42. (Original) The packaged microelectronic device of claim 40 wherein the film is polymeric coating applied to the substrate.
- 43. (Currently Amended) A packaged microelectronic device assembly, comprising:

a microelectronic die having an integrated circuit and a plurality of bondpads on an exterior surface, at least a set of the bond-pads being operatively coupled to the integrated circuit;

a substrate having a cap-zone defined by an area for encapsulation by a protective casing, an opening in the cap-zone, a plurality of contact elements arranged

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in the cap-zone along an edge of the opening, a plurality of ball-pads arranged in a ball-pad array outside of the cap-zone, and a plurality of conductive lines coupling the contact elements to the ball-pads, the microelectronic die being attached to the substrate, and the contact elements being electrically coupled to corresponding bond-pads;

a protective casing covering the cap-zone and filling the opening; and a removable barrier on the substrate outside of the cap-zone, wherein at least a portion of the barrier is adjacent to at least a portion of the protective casing.

- 44. (Original) The packaged microelectronic device of claim 43 wherein the barrier comprises a film having an opening with edges bordering the cap-zone.
- 45. (Original) The packaged microelectronic device of claim 44 wherein the film is a thin tape applied to the substrate.
- 46. (Original) The packaged microelectronic device of claim 44 wherein the film is polymeric coating applied to the substrate.
- 47. (Original) The packaged microelectronic device of claim 43 wherein the barrier is a ridge formed in the substrate that surrounds the cap-zone.
- 48. (Currently Amended) The packaged microelectronic device of claim 43 wherein:

the substrate has a slot, a die-side to which the die is to be attached, and a wire-side opposite the die-side, wherein the contact elements are arranged in a contact array adjacent to an edge of the slot on the wire-side of the substrate, wherein the ball-pad array is spaced apart from the contact array on the wire-side of the substrate, and a boundary of the cap-zone is between the contact array and the ball-pad array on the wire-side of the substrate; and

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the barrier comprises a film having an opening with edges bordering the

boundary of the cap-zone.

49. (Original) The packaged microelectronic device of claim 48 wherein the

film is a thin tape applied to the substrate.

50. (Original) The packaged microelectronic device of claim 48 wherein the

film is polymeric coating applied to the substrate.

51. (Currently Amended) A packaged microelectronic device assembly,

comprising:

a microelectronic die having an integrated circuit and a plurality of bond-

pads on an exterior surface, at least a set of the bond-pads being operatively coupled

to the integrated circuit;

a substrate having a cap-zone defined by an area for that is to be

encapsulated encapsulation by a protective casing and a plurality of conductive

features, at least one conductive feature having a contact element coupled to

corresponding bond-pad on the die, a ball-pad outside of the cap-zone, and a

conductive trace coupling the contact element to the ball-pad;

a protective casing covering the cap-zone; and

a removable seal on at least one side of the substrate, the seal being

configured to inhibit the protective casing from covering the substrate outside of the

cap-zone.

52-64. (Cancelled)

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